Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-03-07-37** **Date: 24-01-19**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Crematoriums in Ward No.07
Agency	:	Executive Engineer KRIDL Bangalore.
Customer's Reference	:	EE(Project)/Ynk Zone/WO/52/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-01-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	22-01-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.85	–
2	Finess by Air permeablity method (m^2/kg,Min)	348.6	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

AE(Asst)

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 19-02-19

Lab ID	:	CP-2019-03-07-37
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Crematoriums in Ward No.07
Agency	:	Executive Engineer KRIDL Bangalore.
Customer's Reference	:	EE(Project)/Ynk Zone/WO/52/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-01-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	22-01-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-03-07-37**	**Date: 24-01-19**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.	
Address	:	Project Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to Crematoriums in Ward No.07	
Agency	:	Executive Engineer KRIDL Bangalore.	
Customer's Reference	:	EE(Project)/Ynk Zone/WO/52/18-19	
Source of Sample	:	Sample supplied by Agency	
Sample condition	:	Satisfactory	
Date of Receipt	:	21-01-19	
Sample Type	:	40mm down size coarse aggregate	
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties	
Date of test	:	21-01-19	

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80mm	0	0	0.0	100	100
2	40 mm	215	215	1.4	98.6	90-100
3	20 mm	7455	7670	51.1	48.9	30-70
4	10 mm	4266	11936	79.6	20.4	10-35
5	4.75 mm	2844	14780	98.5	1.5	0-5
6	Pan	220	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-03-07-37** **Date: 24-01-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**11.9**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**12.3**	
3	Specific Gravity	**2.64**	_
4	Bulk Density(Loose) (Kg/l)	**1.41**	_
5	Bulk Density(Compacted) (Kg/l)	**1.47**	_
6	Water Absorption(%)	**0.23**	_

Note:
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Technical Manager

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Project Division
Yelahanka
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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-03-07-37** **Date: 24-01-19**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Crematoriums in Ward No.07
Agency	:	Executive Engineer KRIDL Bangalore.
Customer Reference	:	EE(Project)/Ynk Zone/WO/52/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-01-19
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	21-01-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2635	2880	57.6	42.4	25-55
4	4.75 mm	1780	4660	93.2	6.8	0-10
5	Pan	340	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-03-07-37** **Date: 24-01-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	9.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.5	
3	Specific Gravity	2.66	_
4	Bulk Density(Loose) (Kg/l)	1.52	_
5	Bulk Density(Compacted) (Kg/l)	1.56	_
6	Water Absorption(%)	0.21	_
7	Aggregate crushing Value(%)	24.1	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2019-03-07-37** **Date: 24-01-19**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Crematoriums in Ward No.07
Agency	:	Executive Engineer KRIDL Bangalore.
Customer's Reference	:	EE(Project)/Ynk Zone/WO/52/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-01-19
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	21-01-19
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---
Result :The tested Sample Conforms to Grading Zone II									

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2019-03-07-37** **Date: 24-01-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.46	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	7.3	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2019-03-07-37**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Crematoriums in Ward No.07
Agency	:	Executive Engineer KRIDL Bangalore.
Customer's Reference	:	EE(Project)/Ynk Zone/WO/52/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-01-19
Sample Type/Size	:	Solid concrete blocks size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	25-01-19

Date: 28-01-19

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	402	202	203	16484	30.750	1865.4	1872.9	Not less than 1800Kg/m^3
2	401	203	201	16362	30.630	1872.0		
3	402	202	202	16403	30.860	1881.3		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	26.130	24.820	5.28	5.27	Shall not be more than 10% by mass
2	26.120	24.800	5.32		
3	25.820	24.540	5.22		

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Date: 28-01-19

Lab ID : CP-2019-03-07-37

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	402	202	201	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	401	201	203	
3	403	203	201	
4	402	201	203	
5	401	203	201	
6	402	202	199	
7	403	201	202	
8	401	203	201	
9	403	201	203	
10	401	203	201	
11	402	202	203	
12	403	203	201	
13	401	201	200	
14	402	203	201	
15	401	200	203	
16	403	202	201	
17	401	201	203	
18	402	203	201	
19	403	200	203	
20	404	203	201	
Average of 20	**402**	**202**	**202**	

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Lab ID : **CP-2019-03-07-37** **Date: 28-01-19**

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	402	202	81204	384.6	4.7	4.5
2	401	201	80601	362.8	4.5	
3	403	203	81809	373.1	4.6	
4	402	201	80802	359.9	4.5	
5	401	203	81403	335.2	4.1	
6	402	202	81204	393.9	4.9	
7	403	201	81003	353.6	4.4	
8	401	203	81403	371.5	4.6	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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Technical Manager

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Yelahanka Zone
Bangalore

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Lab ID : **CP-2019-03-07-37** **Date: 28-01-19**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	402	202	201	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	401	201	203	
3	403	203	201	
4	402	201	203	
5	401	203	201	
6	402	202	199	
7	403	201	202	
8	401	203	201	
9	403	201	203	
10	401	203	201	
11	402	202	203	
12	403	203	201	
13	401	201	200	
14	402	203	201	
15	401	200	203	
16	403	202	201	
17	401	201	203	
18	402	203	201	
19	403	200	203	
20	404	203	201	
Average of 20	**402**	**202**	**202**	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-03-07-37** **Date: 05/02/2019**

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Improvements to Crematoriums in Ward No.07

Agency : Executive Engineer KRIDL Bangalore.

Customer's Reference : EE(Project)/Ynk Zone/WO/52/18-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 31-01-19

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/02/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	29/01/2019	05/02/2019	151.33 X 149.45 X 149.65	22616	**8.582**	290.6	12.8	12.4
2	PCC	M15	29/01/2019	05/02/2019	151.72 X 150.77 X 150.94	22874	**8.162**	275.8	12.1	
3	PCC	M15	29/01/2019	05/02/2019	149.13 X 151.17 X 150.23	22543	**8.600**	279.1	12.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 26/02/2019

Lab ID	:	CP-2019-03-07-37
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Crematoriums in Ward No.07
Agency	:	Executive Engineer KRIDL Bangalore.
Customer's Reference	:	EE(Project)/Ynk Zone/WO/52/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	31-01-19
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/02/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	29/01/2019	26/02/2019	150.02 X 151.08 X 151.87	22665	**8.956**	405.6	17.9	17.6
2	PCC	M15	29/01/2019	26/02/2019	149.26 X 151.92 X 149.30	22677	**8.678**	390.8	17.2	
3	PCC	M15	29/01/2019	26/02/2019	151.72 X 149.76 X 150.61	22720	**8.635**	403.3	17.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-03-07-37**

Date: 05/02/2019

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Improvements to Crematoriums in Ward No.07

Agency : Executive Engineer KRIDL Bangalore.

Customer's Reference : EE(Project)/Ynk Zone/WO/52/18-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 31-01-19

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/02/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	29/01/2019	05/02/2019	149.73 X 149.32 X 151.54	22358	**8.582**	281.4	12.6	12.7
2	PCC	M15	29/01/2019	05/02/2019	151.38 X 150.01 X 149.84	22708	**8.162**	285.9	12.6	
3	PCC	M15	29/01/2019	05/02/2019	151.17 X 150.13 X 150.47	22696	**8.600**	290.4	12.8	

Note:

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All information furnished by Customer/Representative
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Samples will be disposed after 90 days from the date of issue of test certificate

Asst. Executive Engineer
Project Division
Yelahanka ...
Bangalore

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****End of Report****

FOR CIVIL Pro.

R RUDRAPRASAD
Authorized Signatory
Technical Manager

CIVIL PRO BANGALORE Sig..... Date.....

CIVIL PRO
AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 26/02/2019

Lab ID	:	CP-2019-03-07-37
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Crematoriums in Ward No.07
Agency	:	Executive Engineer KRIDL Bangalore.
Customer's Reference	:	EE(Project)/Ynk Zone/WO/52/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	31-01-19
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/02/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	29/01/2019	26/02/2019	151.40 X 150.88 X 151.52	22844	**8.956**	408.2	17.9	17.5
2	PCC	M15	29/01/2019	26/02/2019	151.64 X 149.11 X 151.70	22612	**8.678**	397.2	17.6	
3	PCC	M15	29/01/2019	26/02/2019	149.09 X 150.82 X 149.91	22485	**8.635**	385.4	17.1	

Note:

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Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

FOR CIVIL Pro.
R. Rudraprasad
R RUDRAPRASAD
Authorized Signatory
Technical Manager

CIVIL PRO BANGALORE Sig..... Date.....

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-03-07-37** **Date: 05/02/2019**

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Improvements to Crematoriums in Ward No.07

Agency : Executive Engineer KRIDL Bangalore.

Customer's Reference : EE(Project)/Ynk Zone/WO/52/18-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 31-01-19

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/02/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	29/01/2019	05/02/2019	149.04 X 149.84 X 149.96	22333	**8.582**	279.8	12.5	12.7
2	PCC	M15	29/01/2019	05/02/2019	149.68 X 151.42 X 151.36	22666	**8.162**	292.5	12.9	
3	PCC	M15	29/01/2019	05/02/2019	149.45 X 150.53 X 151.06	22497	**8.600**	281.7	12.5	

Note:

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AE (Ret)

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

FOR CIVIL Pro.

R RUDRAPRASAD
Authorized Signatory
Technical Manager

CIVIL PRO BANGALORE Sig..... Date.....

****End of Report****

CIVIL PRO
AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-03-07-37 **Date: 26/02/2019**

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Improvements to Crematoriums in Ward No.07

Agency : Executive Engineer KRIDL Bangalore.

Customer's Reference : EE(Project)/Ynk Zone/WO/52/18-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 31-01-19

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/02/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	29/01/2019	26/02/2019	151.94 X 151.33 X 149.04	22994	**8.956**	396.7	17.3	17.3
2	PCC	M15	29/01/2019	26/02/2019	149.28 X 149.75 X 151.40	22354	**8.678**	390.9	17.5	
3	PCC	M15	29/01/2019	26/02/2019	150.59 X 149.01 X 151.81	22440	**8.635**	382.1	17.0	

Note:

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Applied. N.D
AE(Civil)

Asst. Executive Engineer
Project Division
Yelahanka
Bangalore

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****End of Report****

FOR CIVIL Pro.
R. Rudraprasad
R RUDRAPRASAD
Authorized Signatory
Technical Manager

CIVIL PRO BANGALORE Sig..... Date.....

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

CIVIL PRO
AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3

To,

Date: 08-03-2019

ASSISTANT EXECUTIVE ENGINEER

PROJECT SUB DIVISION

BBMP

BANGALORE

Dear Sir,

Sub: M/s. Civil Pro Services for the work OF IMPROVEMENTS TO CREMATORIUMS IN WARD NO.07.

Ref: 1. Work Order No: EE(Project)/Ynk Zone/WO/52/18-19

2. Job code: 007-18-000092

We are herewith forwarding to Executive Engineer KRIDL Bangalore. First and Final Bill duly verified and certified that the work is satisfactory and for a Gross Value of Rs.39,92,450.75 /- (Rs. Thirty Nine Lakhs Ninety Two Thousand Four Hundred Fifty and Seventy Five Paisa Only).

Thanking you,

Yours faithfully,

For Civil Pro

R. RUDRAPRASAD
AUTHORIZED SIGNATORY
CIVIL PRO

CIVIL PRO Sig..... Date..... BANGALORE

Asst Executive Engineer
Project Division
Yelahanka Zone
Bangalore